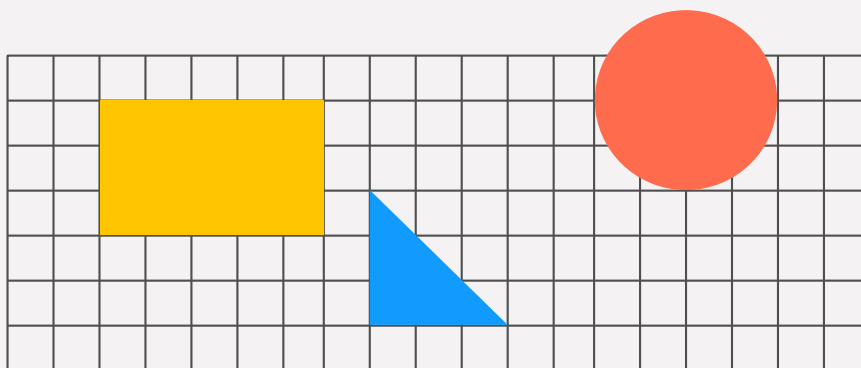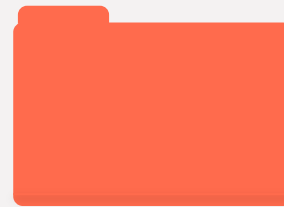# PROJECT DEMO

DB Lovers
Yilei Weng, Zhaodong Liu,
Dong Zhang, Xinyan Ge

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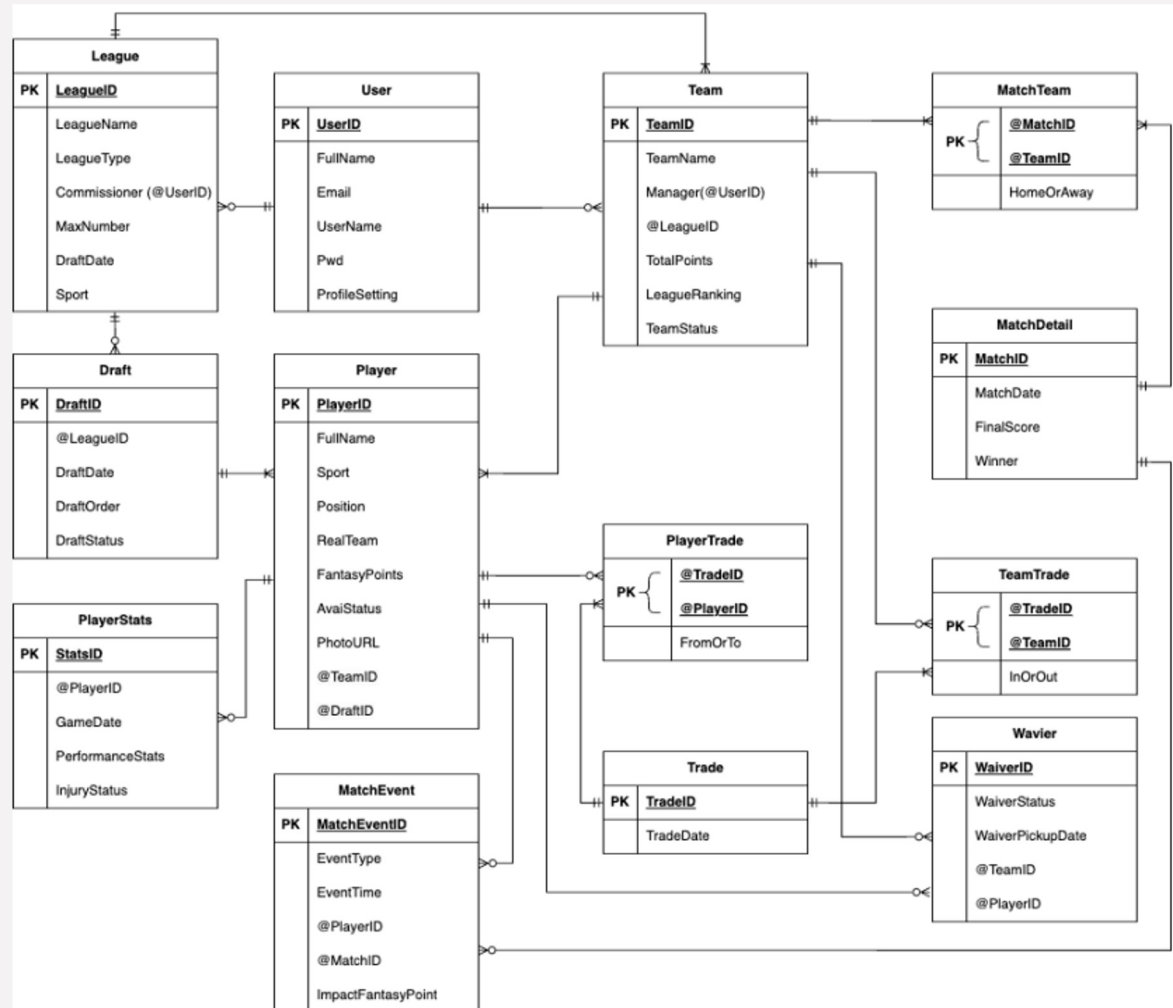**Design** **Function** **Security** **Demo**
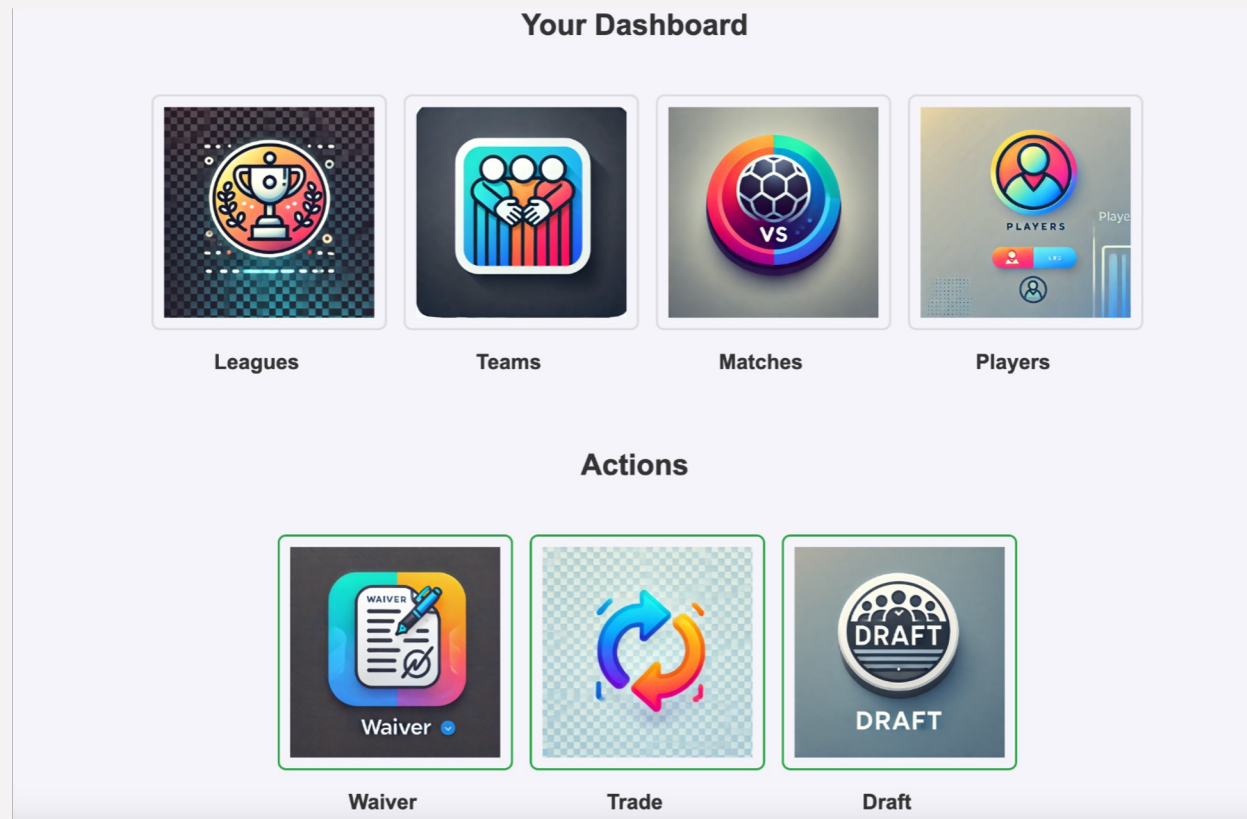
Design

14 tables in total

Web-based database on a local server

Use phpMyAdmin for management

Uses the Flask framework
a lightweight web framework based on Python

Function

Your Dashboard

Leagues   Teams   Matches   Players

Actions

Waiver   Trade   Draft

A dashboard for accessing different functions

Function

Fantasy Sports League Management System
Dashboard

Matches

Sport: Football ⌄   Sort By: Date ⌄   Apply

Match ID	Home Team	Away Team	Date	Final Score	Winner	Actions
12	Tempest Lions	Electric Lions	2024-04-05	21-21	Draw	**View Events**
11	Inferno Foxes	Glacier Owls	2024-03-29	28-24	Inferno Foxes	**View Events**
10	Lava Titans	Phantom Reapers	2024-03-22	35-31	Lava Titans	**View Events**
9	Thunder Sharks	Volcano Cobras	2024-03-15	17-10	Thunder Sharks	**View Events**
8	Raging Bulls	Shadow Panthers	2024-03-08	14-14	Draw	**View Events**

Full Name:
Aaron Ramsdale

Position:
GK

Real Team:
Arsenal

Fantasy Points:
450.00

Availability Status:
Unavailable ⌄

Update Player   Delete Player

Back to Player List

Security

DB level
Application level

Hashed password

Admin/User login
With privileges

```
if user and check_password_hash(user['Pwd'], password):
    # if found, log in the user
    session['user_id'] = user['UserID']
    session['user_name'] = user['UserName']
    flash("Logged in successfully!", "success")
    return redirect(url_for('dashboard'))  # redirect to the dashboard
```

Register As:

✓ User

Admin

Password:

●●●●

```python
# Function to set database privileges
def set_database_privileges(connection, command, privilege, object_name, user_name):
    try:
        with connection.cursor() as cursor:
            sql = f"{command} {privilege} ON {object_name} TO '{user_name}'@'localhost';"
            logging.info(f"Executing SQL: {sql}")
            cursor.execute(sql)
            connection.commit()
            logging.info("SQL executed successfully.")
    except pymysql.MySQLError as e:
        logging.error(f"Database error: {e}")
        raise e
```

```python
        is_admin = user['Position'] == 'A'

        if request.method == 'POST':
            if is_admin:
                action = request.form.get('action')

                if action == 'update':
                    # Admin submitted changes to player details
                    # Retrieve form data
                    full_name = request.form.get('full_name')
                    position = request.form.get('position')
                    real_team = request.form.get('real_team')
                    fantasy_points = request.form.get('fantasy_points')
                    avai_status = request.form.get('avai_status')
                    photo_url = request.form.get('photo_url')
```

▶

Full Name:

Aaron Ramsdale

Position:

GK

Real Team:

Arsenal

Fantasy Points:

450.00

Availability Status:

Available

Update Player   Delete Player

Back to Player List

Aaron Ramsdale

Position: GK

Real Team: Arsenal

Fantasy Points: 450.00

Availability Status: A

Back to Player List

Demo

https://drive.google.com/drive/folders/1rs7UAuF1QEoBHL7_qydwXMfaX490v0DA?usp=sharing